

CLAIM SUMMARY DOCUMENT

1. Withdrawn.

2. Withdrawn.

3. ~~Canceled.~~

4. ~~Canceled.~~

5. (Currently Amended) An isolated nucleic acid sequence selected from the following [A gene consisting of a base sequence of following (c), (d) or (e)]:

(a) an isolated nucleic acid sequence consisting of nucleotides 1 to 1089 of SEQ ID NO:2 ;

(b) an isolated nucleic acid sequence, wherein no more than 5 nucleotides have been added to, deleted from, or substituted in the isolated nucleic acid of (a), and wherein said isolated nucleic acid sequence is induced by high temperature stress and is derived from barley; or

(c) an isolated nucleic acid sequence which hybridizes to the isolated nucleic acid sequence of (a) under stringent conditions, and wherein said isolated nucleic acid sequence is induced by high temperature stress and is derived from barley

[(c) a base sequence referred to as base numbers from 1 to 1,089 shown in SEQ ID NO:2 in the sequence list,

B₂

- 3DZ
COT
- (d) a base sequence in which a part of said base sequence (c) is deleted or another base sequence is added to said base sequence (c) or a part of said base sequence (c) is substituted with another base sequence, the base sequence (d) being induced by high-temperature stress and derived from barley,
- (e) a base sequence that hybridizes with said base sequence (c) under stringent condition, the base sequence (e) being induced by high-temperature stress and derived from barley].
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6. ~~Canceled.~~

7-18. Withdrawn.

19. (New) An isolated nucleic acid sequence encoding a polypeptide selected from the following:

- B3
- (a) an isolated nucleic acid sequence encoding amino acids 1 to 291 of SEQ ID NO:1;
- (b) an isolated nucleic acid sequence, wherein no more than 5 amino acids have been added to, deleted from, or substituted in the polypeptide encoded by the isolated nucleic acid of (a), and wherein said isolated nucleic acid sequence is induced by high temperature stress and is derived from barley; or
- (c) an isolated nucleic acid sequence which hybridizes to the isolated nucleic acid sequence of (a) under stringent conditions, and

wherein said isolated nucleic acid sequence is induced by high temperature stress and is derived from barley.

20. (New) An isolated nucleic acid sequence encoding a polypeptide, wherein said isolated nucleic acid sequence exhibits 90% homology with an isolated nucleic acid sequence of Claim 19.

21. (New) An isolated nucleic acid sequence which exhibits 90% homology with an isolated nucleic acid sequence of Claim 5.
